

**Presentation of the Fast Technical Assistance** The Fast Technical Assistance (FTA) is the Climate Technology Centre & Network (CTCN) short time response to requests referring to technology prioritization, endogenous technologies assessment, policies and measures that are immediate priorities for the requesting country. FTA has duration **up to 2 months** and a total value typically **up to USD 15,000** (it may include a scoping mission, only if strictly necessary). The FTA is implemented by means of an international expert.

**Guidelines:**

- This Request Submission Form should be completed by the organisation requesting technical assistance from the Climate Technology Centre & Network (CTCN) in collaboration with the National Designated Entity (NDE) of the country in question
- The Form must be signed by the NDE. Please see updated contact list of NDEs here: <http://unfccc.int/ttclear/support/national-designated-entity.html>
- The Form can be submitted as a Word file containing a digital signature or as a signed and scanned PDF file in combination with an un-signed Word file

<b>Requesting country:</b>	TONGA
<b>Fast Request title:</b>	Revision of Draft Tonga Energy Efficiency Master Plan (TEEMP)
<b>NDE</b>	Ministry of Meteorology, Energy, Information, Disaster Management, Environment, Climate Change and Communication, Mr. Paula Pouvalu Ma'u, Chief Executive Officer, Email: paulm@mic.gov.to P.O. Box 1380, Nuku'alofa, Tonga.
<b>Request Applicant:</b>	Department of Energy, Ministry of Meteorology, Energy, Information, Disaster Management, Environment, Climate Change and Communication, Email: ttukunga@gmail.com P.O. Box 1380, Nuku'alofa, Tonga.

**Climate objective:**

- Adaptation to climate change
- Mitigation of climate change
- Combination of adaptation and mitigation of climate change

**Geographical scope:**

- Community level
- Sub-national
- National

If the request is at a sub-national level, please describe specific geographical areas (provinces, states, countries, regions, etc.).

**Sectors:**

Please indicate the main sectors related to the request:

- |   |   |                                       |   |
|---|---|---------------------------------------|---|
| <input type="checkbox"/> Coastal zones                | <input type="checkbox"/> Early Warning and Environmental Assessment | <input type="checkbox"/> Human Health | <input checked="" type="checkbox"/> Infrastructure and Urban planning |
| <input type="checkbox"/> Marine and Fisheries         | <input type="checkbox"/> Water                                      | <input type="checkbox"/> Agriculture  | <input type="checkbox"/> Carbon fixation                              |
| <input checked="" type="checkbox"/> Energy Efficiency | <input type="checkbox"/> Forestry                                   | <input type="checkbox"/> Industry     | <input type="checkbox"/> Renewable energy                             |
| <input type="checkbox"/> Transport                    | <input checked="" type="checkbox"/> Waste management                |                                       |   |

**CONTEXT OF THE ASSIGNMENT** (up to half page):

*This section should present the climate problem and the national context within which it takes places (i.e. efforts to tackle it, climate policies and priorities etc). It should end with an explanation of the specific questions and issue the CTCN expert would have to address.*

*Please list or attach relevant documents that will help the CTCN analyse the context of this request.*

The Government of Tonga is looking at reducing the country's dependency on externally sourced fossil fuels with exposure to the associated price volatility while improving energy efficiency, increasing the accessibility to electricity for all inhabitants and improving the affordability of electricity for all users via a lower electricity tariff. In recognition of these objectives, Government of Tonga has set, amongst other several targets, an ambitious target to generate 50% of the country's electricity from renewable energy resources by 2020 alongside with its Tonga National Determined contributions of 70% renewable energy generation by 2030, improve energy efficiency through reduction of electricity line losses to 9 percent by 2020 from a baseline of 18 percent in 2010, sector emission reduction targets (transport, agriculture, environment, friendly waste management and reforestation), and other sectors climate resilience (public infrastructures, foreshore protection, buildings and houses).

Tonga has determined that EE policies and strategies are the cheapest and most reliable initiatives to save energy and reducing costs and GHG emissions. Through the CTCN technical assistance, the TEEMP with achievable energy efficiency (EE) and greenhouse gas (GHG) targets was developed in 2017 by the National Renewable Energy Laboratory (NREL). Despite the significant work of the NREL, the Government of Tonga felt that the TEEMP does not fully reflects the views of national key stakeholders. The failure of the TEEMP to reflects vital factors such as, socio-economic benefits, cost benefit analysis, specific timeframe for initiatives, and economic contribution analysis does devalue the TEEMP.

The government believes that the TEEMP should be revised to reflect social, economic, political and environmental benefit to Tonga. The TEEMP should also (but not limited) be simple yet comprehensive, achievable through existing national resources, sustainable yet contributing to improve the livelihood of Tongan household. We need to ensure that the TEEMP are not a policy that a kept on the shelves but a bible that we use to improve how we manage our energy efficiently.

Thus, the Energy Department of Tonga is kindly seeking technical assistance to revise the TEEMP with achievable EE and GHG targets coupled with measurable indicators to ensure well-focused and transition to an energy efficient future.

The specific objectives of this technical assistance are:

- i. Revise the draft TEEMP and incorporate all excluded comments from Department of Energy
- ii. Conduct Public Consultation workshop
- iii. Final TEEMP to be approved by Ministry of MEIDECC
- iv. Launch final TEEMP as EE policy tool

**Alignment with national priorities :**

*Please describe how the technical assistance is consistent with national climate priorities such as: Nationally Determined Contribution, national development plans, poverty reduction plans, technology needs assessments, Low Emission Development Strategies, Nationally Appropriate Mitigation Actions, Technology Action Plans, National Adaptation Plans, sectorial strategies and plans, etc.*

Reference document (please include date of document)	Extract (please include chapter, page number, etc.).
Nationally Determined Contribution (NDC)	Direct alignment and contribution to NDC implementation is required for all CTCN technical assistances. Please include a direct reference to the INDC/NDC document (chapter, page number, etc.).  <i>Tonga Intended Nationally Determined Contributions (INDCs), Dec 2015. Pages 3, 10, &amp;11.</i>
Technology Needs Assessment	
National Adaptation Plans	<i>Tonga Strategic Development Framework (2015-2025)</i> National Outcome E is on successful provision and maintenance of infrastructure and technology, Page 18. Organization Outcome 4.1 is more reliable, safe, affordable and widely available energy services built on an appropriate energy mix moving towards increased use of renewable energy, Page 20. <i>National Budget Statements</i> <i>National Climate Change Policy (2015-2030)</i> Target #4: A transport system that is not reliant on fossil fuels Target #5: 100 percent renewable energy Target #6: A gender-responsive and equitable society <i>Tonga Intended Nationally Determined Commitments 2015 (INDC), Pages 27.</i> 50% of electricity generation from renewable sources by 2020 70% of electricity generation from renewable sources by 2030 <i>Tonga Energy Road Map (2010-2020)</i> <i>Ozone Layer Protection Act (2010) Amended (2014)</i> <i>The Renewable Energy Bill (2008)</i>
Nationally Appropriate Mitigation Actions	<i>The Second Joint National Action Plan on Climate Change Adaptation and Disaster Risk Management, 2018-2028, Pages 49</i> Objective 4 is on Resilience-Building Actions and to be achieved by designing and implementing on-the-ground adaptation, clean and efficient energy and disaster risk management actions that focused on building a Resilient Tonga at the national, outer-island and community levels

	<p><i>Renewable Energy Plan (REEP)</i>  <i>Outer Island Renewable Energy Project (2017)</i>  <i>Tonga Village Network Upgrade Project (2012)</i>  <i>Solar Water Pump Phase 3 (2018)</i>  <i>Pacific Appliance Labelling and Standards (2014)</i>  <i>Pacific Environment Community Fund Project (2014-2018)</i></p>
<p>Add others here as relevant</p>	

**OBJECTIVE OF THE FTA (up to 5,000 characters):**

*This section should present the overall objective of the assignment, including the result expected by the end of the Fast Technical Assistance*

**Overall Objective:**

The revised TEEMP clearly reflects achievable EE and GHG targets with measurable indicators to ensure well-focused and transition to an energy efficient future in Tonga.

**The objectives of the technical assistance are to:**

- a. Revise the draft TEEMP with the approval of the DOE, MEIDECC
- b. Launch final TEEMP as a mechanism to ensure the transition to an energy efficient future.

It is expected that the revised TEEMP will:

- Provide a strategic and clear pathway for Tonga to reduce its GHG emissions and improve energy efficiency in all sectors.
- Improve the energy efficiency standards of technologies and applications in Tonga through the adoption of existing Energy Efficiency Standards that are suitable to Tonga for energy services, appliances, technologies, buildings and vehicles
- Banned of importation of energy intense technologies that inefficient to Tonga
- Give great authority to the DOE to plan, manage and monitor the EE sector of Tonga
- Improve social wellbeing and livelihood through increase access to affordable, clean, modern and secured energy sources
- Increase resilient infrastructures constructed to tackle climate change impacts based on environmental, sustainable and energy efficient standards and design.

**SCOPE AND ACTIVITIES OF THE PROPOSED FTA (up to one page):**

*The FTA should clearly contribute to mitigation or adaptation to climate change as described in the context of the assignment.*

*Within a clearly defined scope, the description of the FTA should be structured into the following:*

- *Expected activities*
- *Expected deliverables (following the structure of the activities)*
- *Expected use of the deliverables by the requesting organisation*

*Please note that the CTCN facilitates technical assistance and is not a project financing mechanism. All FTA has one mandatory activity, "Evaluation and communication".*

**Expected Activities**

**Activity 1: Incorporate excluded comments from DOE to the revised TEEMP**

The TA will compile all comments from DOE that was not included in the draft TEEMP and incorporate.

**Activity 2: Develop clear sectorial matrix table of EE**

The TA requires to build on the identified initiatives in the draft TEEMP by providing a clear matrix of the followings:

- Combine all EE initiatives into one matrix table with clear timeframe of implementing each activities within the TEEMP timeframe
- Include capital cost of EE initiatives, human resource require, and key stakeholders
- Include potential donor for respective EE initiatives
- Include percent of GHG reduction for all proposed EE initiatives
- Include economic contribution for all proposed EE initiatives
- Include Gender and Social benefits of the proposed EE initiatives

**Activity 3: Develop energy intensity indicators for Transportation and Household energy consumption**

This activity requires the TA to identify energy indicators to monitor the progress of the TEEMP.

**Activity 4: Develop Risk Management Framework of the TEEMP**

The TA will identify limitations and potential threats to achieving the TEEMP. The TA is required to develop a risk management framework or strategy to eliminate any limitations and potential risks. The TA is also requires to develop a mechanism to monitor and evaluate the risk management strategy.

**Activity 5: Conduct Public Consultation Workshop on the revised TEEMP**

This activity is for the TA to collect the views and feedback of the general public and key stakeholders on the TEEMP. It is to ensure that TEEMP reflects the need of the nation.

**Activity 6: Finalization of the revised TEEMP**

The TA will submit the revised TEEMP and seek endorsement of the DOE, MEIDECC. TA also requires to prepare Cabinet Submission of the TEEMP. TA requires to launch the TEEMP for the country.

**Expected Deliverables:**

- i. Revised TEEMP completed and acceptable by DOE, MEIDECC.
- ii. Approved Cabinet Submission of TEEMP.
- iii. Launch TEEMP as EE policy tool for the country.

**Expected Use of the Deliverables:**

- i. Use to guide future EE project proposal for donors.
- ii. Use as a guideline for decision makers.
- iii. Policy endorsement of the Cabinet.
- iv. Monitor and evaluate progress of EE initiatives.

**Activity x: Evaluation and communication**

*The CTCN FTA Closure report will be completed at the end of the FTA (a template will be provided).*

**Deliverable:**

*FTA Closure report*

**GENERAL TIME SCHEDULE OF EXPERT AND ACTIVITY/DELIVERY PLAN:**

*The activities under this contract must be completed within a period of X months. Please note that the maximum time for the assignment is 2 months.*

**Proposed Timeframe**

**Outcome:** The revised Tonga Energy Department will implement the TEEMP in coordination with other local stakeholders, and given available resources, for the purpose of lowering energy use and GHG emissions while providing high quality, reliable electricity and in line with Tonga's Climate Development goals.

	April 2019				May 2019			
	Wk 1	Wk 2	Wk 3	Wk 4	Wk 1	Wk 2	Wk 3	Wk 4
Activity 1: Incorporate excluded comments from DOE to the revised TEEMP	X	X						
Activity 2: Develop clear sectorial matrix table of EE			X					
Activity 3: Develop energy intensity Indicators for Transportation and Household energy consumption				X				
Activity 4: Develop Risk Management Framework of the TEEMP					X			
Activity 5: Conduct Public Consultation Workshop						X	X	
Activity 6: Finalization of the revised TEEMP								X

**Monitoring and impact of the assistance:**

By signing this request, I affirm that processes are in place in the country to monitor and evaluate the technical assistance provided by the CTCN. I understand that these processes will be explicitly identified in the CTCN Response Plan and that they will be used in the country to monitor the implementation of the technical assistance following standard CTCN procedures.

**Signature:**

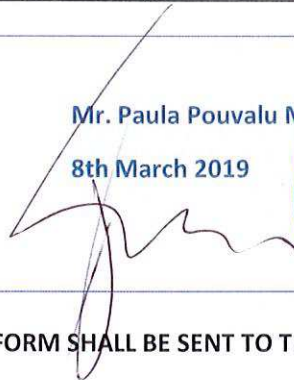

NDE name:

Mr. Paula Pouvalu Ma

Date:

8th March 2019

Signature:

 THE COMPLETED FORM SHALL BE SENT TO THE [CTCN@UN.ORG](mailto:CTCN@UN.ORG)